DOCKET FILE COPY ORIGINAL



80 South Jefferson Road Whippany. NJ 07981

Regina **McNeil** Senior Attorney

Voice: 973-884-8168 Fax: 973-884-8008 E-mail: rmcneil@neca.org

December 31,2002

RECEIVED

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, DC 20554

DEC 3 1 2002

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: National Exchange Carrier Association, Inc. 2003 Modification of Average Schedules

Dear Ms. Dortch:

Attached is an original and five (5) copies of the "2003 Modification of Average Schedules" submitted by the National Exchange Carrier Association, Inc. (NECA). This filing contains revised formulas for average schedule interstate settlement disbursements filed pursuant to section 69.606 of the Commission's rules, 47 C.F.R. § 69.606. Pursuant to this section, NECA is required to submit any proposed revisions to the formulas on or before December 31,2001. These modifications are proposed to become effective on July 1,2003.

Acknowledgement of receipt of this filing is requested. A duplicate letter is provided for this purpose.

Sincerely,

Attachments:

2003 Modification of Average Schedules Service List

CERTIFICATE OF SERVICE

I hereby certify that a copy of the 2003 NECA Modification of Average Schedules was served on this 31st day of December 2002 by hand delivery or by first-class mail to the persons listed below.

Shawn O'Brien

The following parties were served:

Marlene H. Dortch*
Secretary
Federal Communications Commission
445 12th Street SW
TW-A325
Washington, DC 20554
(original and 5 copies)

Qualex International*
Portals II
445 12th Street SW
Room CY-B402
Washington, DC 20554

Tamara Preiss*
Pricing Policy Division
Wireline Competition Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Judith Nitsche*
Pricing Policy Division
Wireline Competition Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Jay Atkinson*
Wireline Competition Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Douglas Slotten*
Wireline Competition Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Robert Cannon*
Office of Plans and Policy
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Stuart Polikoff OPASTCO 21 Dnpont Circle NW, Ste. 700 Washington, DC 20036

L. Marie Guillory National Telecommunications Cooperative Association 4121 Wilson Boulevard, 10th Floor Arlington, VA 22203

Robin E. Tuttle United States Telecom Association 1401 H. Street NW, Ste. 600 Washington, DC 20005

*delivery by hand

DOCKET FILE COPY ORIGINAL

WC 03-9

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

RECEIVED

DEC 3 1 2002

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

2003

NECA MODIFICATION OF AVERAGE SCHEDULES

December 31,2002



TABLE OF EXHIBITS

SUMMARY

[.	INTRO	ODUCTION							
	Α.	Background							
	B.	Overview of this Filing							
	C.	Effects of Proposed Modifications on Average Schedule Companies							
		1. Formula Changes							
		2. Effects on Individual Average Schedule Companies	1-7						
	D·	Communications with Average Schedule Companies	I-8						
11.	SAMI	IPLE SELECTION							
	Α.	Introduction	11-1						
	В.	Five-Year Sampling Design	11-4						
	C.	Sampling Design Attributes	11-6						
	D.	Stratification of the Population	11-11						
	Ε.	Determination of Sample Size	.II-15						
	F.	Allocation of Sample to Strata	11-21						
	G.	Selection of Sample	11-27						
	Н.	Sample Weights	11-30						
	I.	Assignment of Study Areas to Sample Years	.П-31						

IV.	COST	OST COMPANY ALLOCATION MODELS (Continued)				
		3.	Summa	ary of Cost Allocation Methods	iv-4	
		4.	Cost S	tudy Separations Factors	iv-4	
		5.	Cost S	tudy Access Allocation Factors	1v-5	
	С.	Outlie	r Accon	nmodation Methods	IV-1 1	
		1.	Outlier	Accommodation Method in Regression Models	IV-1 1	
			a.	Identification of Outliers in Regression Models	IV-1 1	
			b.	Accommodation of Outliers in Regression Models	1v-12	
		2.	Outlier	Accommodation Method for Ratio Estimates	1v-15	
			a.	Identification of Outliers for Ratio Estimates	1v-15	
			b.	Accommodation of Outliers for Ratio Estimates	1v-16	
	D.	Part 36	Separa	ations Factor Modeling	1v-16	
		1.	Model	Forms	1v-16	
		2.	Separa	tion Factor Models	1v-21	
	E.	Part 69	Alloca	tion Factor Modeling	1v-32	
		1.	Metho	ds and Data	1v-32	
		2.	Pert 69	Allocation Models	1v-35	
			a.	Expense and Reserve Models	1v-35	
			b.	Central Office Equipment Models	1v-38	
			C.	Cable & Wire Facilities Models	1v-41	
	F.	Additi	onal Ac	count Adjustments	IV-43	

Removal of Non-Operating Interest and Related Items ______ 1v-43

1.

Ш.	DATA COLLECTION									
	Α.	Introductioniii								
	В.	NECA	A's Annual Data Collection	iii-3						
	C. Cost Company Cost Data									
	D.	Average Schedule Company Accounting Data								
	Ε.	Dema	Demand Data							
	F.	Average Schedule High Traffic Volume Demand and Accounting Data								
	G. Line Haul Data									
		1.	Average Schedule Companies	III-10						
		2.	Cost Companies	Ⅲ-11						
	Н.	Signaling System 7 (SS7) Data								
	I.	Data Edits								
		a.	Cost Study Area Part 32, Part 36 and Part 69 Data Edits	III-13						
		b.	Average Schedule Study Area Accounting Data Edits	IJI-13						
		c-	Demand Data Edits	III-14						
		d.	Signaling System 7 (SS7) Data Edits	Ш-14						
IV.	COST COMPANY ALLOCATION MODELS									
	A.	Introduction								
	В.		dictional Cost Separations and Access Category Allocations	IV-1 1v-2						
	υ.	1.	Separation of Local Switching Investment	1v-2 1v-2						
		1. 2	Scope of Changes to Separation and Allocation Methods	1v-2						
		,	Scope of Changes to Separation and Allocation Methods	1 W - 3						

V.	DATA PROJECTIONS (Continued)									
	E.	Circui	t Mile Forecasting	V-27						
		1.	Normal Route Circuit Mile Forecasting	V-28						
		2.	Long Route Circuit Mile Forecasting	V-29						
	F.	Circui	t Termination Model	V-31						
	G.	Interto	oll Dial Circuit Forecasting	V-33						
	Н.	Specia	al Access Revenue Forecasting	V-35						
		1.	Special Access Revenues Data	V-35						
		2.	Forecast of Special Access Revenues	V-36						
VI.	AVE	AVERAGE SCHEDULE COMPANY PART 36 AND PART 69 COSTS								
	Α.	Introduction								
	В.	Separation of Part 32 Accounts								
		1.	Direct Separations Calculations - Average Separations Fraction	VI -2						
		2.	Direct Separations Calculations - Regression Model Separations Fraction	v1-3						
		3.	Indirect Separations Calculations	v1-5						
	C.	Alloca	ation of Interstate Costs to Access Categories	v1-7						
	D.	Allocation of Transport Costs to Subcategories								
	Ε.	Calculation of Cash Working Capitalv								
	F.	Calculation of Interstate Access Category Revenue Requirements v1								
	G.	Carrie	er Access Billing System (CABS) Adjustment	v1-16						
	H.	Signa	ling System 7 (SS7) Adjustment	v1-17						

IV.	COST COMPANY ALLOCATION MODELS (Continued)							
		2. Interest on Customer Deposits						
		3. Investment Tax Credit						
		4. Charitable Contributions						
	G.	Cost Study Factors1						
V.	DATA PROJECTIONS							
	Α.	Introduction						
	B.	Account Forecasting						
		1. Stratification of the 2001 Sample						
		2. Account Adjustments						
		3. Identification and Accommodation of Outliers						
		4. Account Groupings						
		5. The 2001 Sample Stratified Annual Growth Ratios						
		6. The 2002 Study Stratified Composite Growth Ratios						
		7. Other Growth Rates						
		8. Stratified Multi-year Growth Ratios						
		9. Account Forecasting						
	C.	Access Minute Forecasting						
		1. Econometric Model for Access Minutes						
		2. Access Minute Growth Ratios						
	D	Stratified Access Line Forecasting						

VII.	SETTLEMEN	TFORMII.	A DEVEL	OPMENT ((Continued)
V 11 .					

I.	Spec	ial Access Formula	VII-29
	1.	Development of Cost Company Size Factor	VII-30
		a. Calculation of Cost Company Revenue Requirements	VII-30
		b. Development of Revenues per Exchange	VII-30
		c. Select Cost Companies Representative of Average Schedule Companies	W-31
		d. Regression to Determine Cost Company Size Factor	W-31
	2.	Development of Average Schedule Retention Ratio	W-32
		a. Calculation of Average Retention Ratio	VII-32
		b. Derivation of Basic Retention Ratio	VII-33
J.	Signa	aling System 7 (SS7) Formulas	W-35
	1.	Development of Settlement Formula for SSPs with Full Connectivity	W-36
		a. Development of Monthly Investment Costs	W-37
		b. Development of Monthly A-Link Costs	VII-40
		1. Provider Mileage Costs	W-41
		ii. Provider Termination Costs	VII-42
		iii. Provider Monthly Interstate A-Link Costs	VII-44
		iv. Average Schedule Company A-Link Costs	VII-44
		c. Development of Monthly CP Data Link Costs	VII-44
		d. Settlement Formula Calculation	W-45
	2.	Development of Settlement Formula for SSPs Not Yet Fully Connected	VII-46

VI.	AVERAGE SCHEDULE COMPANY PART 36 AND PART 69 COSTS (Continued)						
	I.	Lease	ed Trans	sport Facilities Adjustment	vi-18		
	Ј.			te Revenue Requirements for High Traffic ly Areas	vi-19		
VII.	SETI	LEME	NTFO	RMULA DEVELOPMENT			
	Α.	Intro	duction		V∏-1		
	B.	Outli	er Anal	ysis	W-2		
	C.	Com	mon Lir	ne Access Line Formula	V∏ - 2		
	D.	Common Line Universal Service Contribution Reimbursement Formula					
	Ε.	Centr	ral Offic	ce (CO) Formula	v11-8		
		1.		ula Based on Carrier Access Billing System BS) Costs in Cost Studies	VII-10		
		2.	Studi	es of Average Schedule Company Data	VII-13		
			a.	Preliminary Access Line Factor Formula	.VII-13		
			b.	Basic Cost Per Minute Formula	VII-14		
			c·	Folding CABS Cost into Central Office Formula-	· VII-15		
			d•	The High Volume Access Line Multiplier	W-18		
			e.	Settlement Rates For High Traffic Volumes	VII-19		
	F.	Inter	toll Dial	Switching Formula	VII-23		
	G٠	Line	Haul D	istance Sensitive Formula	VII-24		
	н٠	Line	Haul No	on-Distance Sensitive Formula	V∏-28		

APPENDICES Appendix A1 Sample Selection _Individual Listing of Final Strata A1-1 to A1-40 Cost Company Cost Data B1-1 to B1-234 Appendix B1 2001 Sample Average Schedule Company Accounting Appendix C1 Data for 1999 C1-1 to C1-27 2001 Sample Average Schedule Company Accounting Appendix C2 Data for 2000 C2-1 to C2-27 2000 or 2001 Sample High Traffic Volume Company Appendix C3 Accounting Data for 1998. 1999 or 2000 C3-1 to C3-9 Appendix C4 2000 Sample Average Schedule Company Accounting Data for 1998 C4-1 to C4-36 2000 Sample Average Schedule Company Accounting Appendix C5 Data for 1999 C5-1 to C5-36 Sample Average Schedule Company Demand Data D1-1 to D1-10 Appendix D1 Cost Company Demand Data..... D2-1 to D2-14 Appendix D2 Appendix D3 Average Schedule High Traffic Volume Study Area Demand Data D3-1 to D3-2 Average Schedule Access Minutes Econometric Model Appendix D4 Data D4-1 to D4-2 Impacts of Proposed Formulas..... E-1 to E-20 Appendix E Flow Charts of Settlement Formula Development Steps F-1 to F-8 Appendix F Signaling System 7 (SS7) Data G-1 to G-13 Appendix G Study Areas Codes and Company Names for Average Appendix H Schedule Study Areas H-1 to H-12

Study Areas with Low Cost Facilities.....

I-1

Appendix I

VΠ.	SETTLEMENT FORMULA DEVELOPMENT (Continued)						
	K.	Rate of Return Factor Formulas					
	L.	Equal	Access	Settlements	VII-48		
	М.	Adjus	tments 1	for the MAG Order	VII-50		
		1.	Switch	hing Line Ports	VII-52		
			a.	Development of Line Port Shift Factor	W -52		
			b.	Application of Line Port Shift Factor	VII-53		
		2.	Trans	port Interconnection Charge	W -53		
			a.	Development of Common Line TIC Shift Factors	VII-54		
			b.	Application of TIC Shift Factors	W-55		
	N.	Impac	t of Pro	posed Formulas	VII-56		
νШ.	CURRENT AND PROPOSED AVERAGE SCHEDULE SETTLEMENT FORMUI						
	Α.	Comn	non Lin	e Access Line Formulas	V∭-1		
	В.	Traffi	c Sensi	tiveFormulas	V∭-4		
GLOS	SSARY			G-	·1 to G-8		

SUMMARY

EXHIBIT NUMBER	EXHIBIT TITLE
2.1	Sample Design Criteria
2.2A	Classes of Average Schedule Study Areas
2.2B	Classes of Cost Company Study Areas
2.3A	Preliminary Stratum Definition-Average Schedule Study Areas11-11
2.3B	Preliminary Stratum Definition-Cost Company Study Areas 11-12
2.4A	Revenue Size Criterion – Average Schedule Study Areas
2.4B	Revenue Size Criterion – Cost Company Study Areas
2.5A	Distribution of Access Revenues by Final Strata Average Schedule Study Areas
2.5B	Distribution of Access Revenues by Final Strata Cost Company Study Areas
2.6	Revenue Requirements and Access Lines for Average Schedule Stratum A2
2.7	Average Schedule Stratum Variance Data
2.8A	Final Strata – Average Schedule Study AreasII-25
2.8B	Final Strata - Cost Study Areas
2.9	Random Starts For Each Stratum
4.1	Cost Separation and Allocation Methods
4.2	Illustrative Outlier Weights
4.3	Part 36 Separation Factor Models
4.4	Independent Variables Tested in Model Development 1v-34
4.5	Part 69 - Expense, Reserve and IOT Equipment Allocation Models

EXHIBIT NUMBER	EXHIBIT TITLE
4.6	Part 69 _Central Office Equipment Allocation Models
4.7	Part 69 _Cable & Wire Facilities Allocation Models
4.8	Development of SS7 Cost Study Factors
5.1	Account Groupings for Growth Calculation
5.2	Average Schedule Account Growth Ratios
5.3	Adjustment of 2000 Sample Stratified Annual Growth Ratios for Study Areas with less than 4, 000 Access Lines using COE investment as an example V-12
5.4	Access Minutes Econometric Model
5.5A	Demand Data Used in Time Series Models - Common Line
5.5B	Demand Data Used in Time Series Models - Traffic Sensitive V-25
5.6	Rate of Return Adjustment Factor Development
6.1	Direct Separation of Average Schedule Accounts by an Average Fraction VI-3
6.2	Direct Separation of Average Schedule Accounts by a Regression Model VI-4
6.3	Indirect Separation of Average Schedule Accounts v1-5
6.4	Weighted Categorization and Interstate Separations Resultv1-6
6.5	Interstate Investment Directly Assigned to Access Categoriesv1-8
6.6	Proportionate Allocation of Accounts to Access Categories v1-10
6.7	Weighted Access Category Allocation Resultsv1-11
6.8	Weighted Average Access Category Allocation Factorsv1-12
6.9	Direct Assignment of COE and C&WF to Transport Elements
6.10	Indirect Allocation of Accounts to Transport Elements v1-14

EXHIBIT <u>NUMBER</u>	EXHIBIT TITLE	
7.1	Illustrative Calculation of CABS Revenue Requirement Using Weighte Summed Amounts from Cost Separations Studies	d VII-12
7.2	Central Office Formula Coefficients	W-17
7.3	Iterative Process for Determining High Traffic Volume Coefficients	V∏-21
1.4	Special Access Taciff Rate Index Calculation Method	VII-35
1.5	Development of Monthly Investment Charge Factor	VII-38
7.6	Development of SS7 Monthly Interstate A-Link Rates (per Pair)	VII-43
7.7	Monthly CP Data Link Rate Development	VII-45
7.8	Revenue Requirement Ratios Underlying ROR Formulas	W-49
1.9	Calculation of the Equal Access Investment Monthly Carrying Charge Factor	W-51
7.10	Summary of Proposed Formula Average Changes	W-58
7.11	Settlement Effects of Proposed Average Schedules	W-59
7.12	Settlements by Major Settlement Element	W-60



SUMMARY

The National Exchange Carrier Association, Inc. (NECA) submits revised interstate average schedule formulas for Federal Communications Commission (FCC or Commission) approval, scheduled to be effective from July 1,2003 through June 30,2004. When approved, NECA will use these formulas to compute interstate access compensation (or settlements) for average schedule companies, that simulate the disbursements that would be received by representative cost companies.

NECA estimates carriers can expect, on average, an overall settlement increase of 3.97% as a result of the new formulas.

Impacts of these formula changes on individual average schedule companies will vary, depending on each company's size and demand characteristics. Of the 506 average schedule study areas, NECA projects that 495 will experience settlement increases. A small group of study areas will experience overall settlement increases greater than 10%. These study areas derive a large percentage of their settlements from the Common Line Access Line and Central Office formulas, which are increasing for most study areas. Another small group of companies will experience overall settlement decreases. These decreases are primarily due to two factors: (1) a decrease in the Common Line formula for study areas in the 500 to 1,000 lines per exchange band; and (2) a decrease in the Line Haul Distance Sensitive Formula.

Notwithstanding proposed overall increases in settlement rates, many companies may yet experience overall settlement decreases in the coming year, as market conditions cause continued declines in subscribership and calling volumes in many areas. In this average schedule study, for the first time, NECA projects overall decreases in interstate access minutes. Such demand decreases contribute to higher ratios of embedded cost to demand, causing proposed increases in settlement rates.

Shortly after this filing is made, **NECA** will send to all average schedule companies a letter previewing the proposed average schedule formulas. This notification presents preliminary formula impacts and offers reasons for the proposed changes. This notification will also provide information that will allow each average schedule company to calculate its new settlement amounts on its own or with the assistance of **NECA** regional staff.

I. INTRODUCTION	

The National Exchange Carrier Association, Inc. (NECA)' herein proposes modifications to current interstate average schedule formulas, for Federal Communications Commission (FCC or Commission) approval. These modifications are scheduled to be effective from July 1,2003 to June 30,2004.

A. <u>Background</u>

Exchange Carriers (ECs) that participate in NECA's access charge pools receive compensation for providing interstate access services either on the basis of their individual costs or a set of interstate average schedule formulas. Cost separation studies, performed in accordance with Parts 32, 36, 64, 65 and 69 of the Commission's rules, involve extensive data collection, analysis and reporting. The Commissionhas recognized that it is inefficient to require cost separation studies for all companies. Not all ECs have the resources available to perform these studies. Commission rules accordingly permit certain ECs to receive interstate access compensation (or "settlements") based upon a set of "average schedule" formulas developed by NECA. The average schedule formulas are designed to "simulate the disbursements that would be received . . . by a [cost study] company that is representative of average schedule companies."

Settlements made on the basis of average schedule formulas benefit both ECs and interstate ratepayers. The average schedule method substantially reduces administrative costs for these smaller

NECA administers interstate access charge tariffs and revenue pools on behalf of member Exchange Carrier (ECs), and the preparation and filing of average schedule formulas, in accordance with the Commission's **Part** 69 rules **(47**C.F.R. **Part** 69).

² Compensation to ECs using these average schedule formulas is based on an EC's number of access lines, access minutes and other demand variables.

^{3 47} C.F.R. § 69.606(a).

ECs by eliminating the need to conduct detailed accounting and engineering cost studies required of cost companies. This cost savings, in turn, benefits ratepayers!

Section 69.606 (b) of the Commission's rules requires NECA either to file revised formulas on or before December 31st of each annual period, or to certify that no such revisions are necessary.' Accordingly, each year, NECA conducts an extensive study of cost and demand data to determine if revisions to the average schedule formulas are warranted. NECA's arrual study involves selecting a statistical sample of both cost and average schedule companies and collecting accounting and demand data from the selected companies! NECA then develops mathematical models ("allocation factor models") that describe how representative cost companies allocate their total costs to the interstate jurisdiction and to individual access charge categories.

The study also projects cost and demand data, obtained from sample average schedule companies, to account for growth. NECA then applies the allocation factor models derived from representative cost companies to sample average schedule company total company account data. This enables NECA to determine the interstate access portion of average schedule company total costs, thereby simulating the effects of performing interstate cost studies for these companies. Finally, NECA develops formulas that relate sample average schedule company interstate access costs to various commonly-used demand units (such as access lines or access minutes) or combinations of demand units and other factors (such as lines per exchange). In developing these average schedule formulas,

See Revisions to the Average Schedules Proposed by NECA on October 3, 1988, Memorandum Opinion and Order, 4 FCC Rcd 2804 (1989) (1989 Order).

⁵ 47 C.F.R. § 69.606(b). The current formulas have been in effect since July 1,2002.

Statistical sampling is commonly used as a cost-effective method of deriving estimates for a population. A properly designed sample will provide an accurate representation of the entire population, but at a fraction of the cost of examining the entire population.

NECA carefully analyzes different statistical models and selects the model that has the best fit to actual data. Upon Commission approval, these formulas are used by NECA to compute interstate settlements for average schedule companies that simulate cost study results.

In preparing proposed formula revisions, NECA receives valuable assistance from an Industry Average Schedule Task Group. This group consists of EC representatives sponsored by industry associations (*i.e.* the National Telephone Cooperative Association, the Organization for the Promotion and Advancement of Small Telecommunications Companies and the United States Telecom Association). The Task Group meets several times each year during the course of NECA's study, reviews the steps taken in developing the proposed formulas, advises NECA regarding the development of procedures for administration of the formulas, and assists the NECA Board of Directors in evaluating final proposed formulas.

Task Group participation **assures** that average schedule companies are able to participate fully in the development of **the** average schedules, and also have an opportunity to provide input to NECA regarding the ways in which changes in the settlement formulas can affect their networks.

B. Overview of This Filing

Each of the steps followed in NECA's study **are** explained in detail in this Filing? Section Π describes the statistical sampling methods that NECA used in its data collection for settlement

The instant filing is referred to herein as the "2003 Filing" and the data collection and analyses upon which this filing is based are referred to as the "2002 Study." The proposed settlement formulas proposed herein **are** referred to as the "2003 Schedules." References made herein with respect to previous years' filings, studies and settlement formulas use similar nomenclature.

formula development. Section III contains a description of the sources and types of data NECA collected from cost and average schedule companies. Section IV explains the methods NECA used to develop cost allocation factor models from sample cost company data. Section V describes how NECA projected growth in historical cost and demand data, to develop cost and demand data applicable to the period the proposed formulas will be in effect. Section VI explains how NECA calculated Interstate and Access Category costs by account for each sample average schedule study area. Section VII explains how NECA develops the "best fitting" mathematical formulas for use in determining settlements and explains adjustments made to the formulasto reflect the allocation rules mandated by the MAG Order.' NECA also explains in Section VII how the proposed formulas will affect average schedule companies. Section VIII lists the current and proposed average schedule formulas. Finally, the attached appendices contain all of the data used in NECA's study. These data enable the Commission and interested parties to verify NECA's Study results.

The 2003 Filing utilizes the five-year sampling design developed in 1998 (1998 Design). This Design selects a five-year sample, and then assigns members of the sample to data collection years. The 1998 Design takes extra precautions to ensure that additional "small" average schedule study

_

Multi-Association Group (MAG) Plan for Regulation of Interstate Services of Non-Price Cap Incumbent Local Exchange Carriers and Interexchange Carriers, Federal-State Joint Board on Universal Service, Access Charge Reform for Incumbent Local Exchange Carriers Subject to Rate-of-Return Regulation, Prescribing the Authorized Rate of Return for Interstate Service for Local Exchange Carriers, Second Report and Order and Further Notice & Proposed Rulemaking in CC Docket No. 00-256, Fifteenth Report and Order in CC Docket No. 96-45, and Report and Order in CC Docket Nos. 98-77 and 98-166, 16 FCC Rcd 19613 (2001) (MAG Order).

areas are included! The design entailed defining stratification attributes, determination of sample size, and allocation of the sample to strata, sample selection and assignment of study areas to specific data collection years. The 1998 Design utilizes a number of study area attributes, including: size grouping (based **on** number of access lines per exchange); traffic volume (*high* or normal based on switched access minutes per access line); and circuit density (high or low based on switched terminations per exchange). Section II of this filing explains the 1998 Design in detail.

Additionally, in the 2003 Filing, NECA continued **to** adjust formulas to reflect the allocation **rules** mandated by the MAG Order. As in the 2002 Filing, NECA made the following adjustments: (1) reallocation of a portion of General Purpose Computer costs from access categories to the Billing and Collection category; (2) reallocation of Switch Line Port costs from the Central Office to the Common Line access category; and (3) reallocation of Transport Interconnection Charge costs for Transport to Common Line.

C. Effects of Prouosed Modifications on Average Schedule Comuanies

1. Formula Changes

NECA develops average schedule formulas in the common line and traffic sensitive access tariff categories. Common line formulas include a Common Line Access Line formula, a Universal Service Contribution Formula, a Common Line Line Port formula, a Common

[&]quot;Small" study areas are defined as those with fewer than 200 access lines per exchange. This is in response to a Commission concern first brought to NECA's attention in December 1997. See National Exchange Carrier Association, Inc. (NECA), Proposed Modifications to the 1997 Interstate Average Schedule Formulas and Proposed Further Modifications to the 1997-98 Interstate Average Schedule Formulas, AAD 97-2, AAD 97-109, Order on Reconsideration and Order, 13 FCC Rcd 10116(1997).

Line Transport formula and a Rate of Return Factor formula. Traffic Sensitive formulas include: the Traffic Sensitive components of a Central Office formula, Line Haul Transport formulas, and an Intertoll Switching formula; a Special Access formula, Signaling System 7 formulas, an **Equal** Access formula, and a Network Administration formula.

Beginning July 2003, carriers can expect, on average, an overall settlement increase of 3.97% as a result of the new formulas. **This** increase reflects a 4.44% increase in Common Line (CL) settlement rates and a 3.38% increase in overall Traffic Sensitive (TS) settlement rates.

NECA proposes a 3.03% increase in the Common Line Access Line formula, primarily because of demand reduction and cost growth.

The Central Office (CO) formula is proposed to increase 10.15% on average, primarily due to increased cost allocations, and decreased switched access minutes.

The Distance Sensitive Line Haul formula will decrease by 4.79% on average, primarily due to the continued **shift** from copper cable facilities to lower cost fiber networks.

The Non-Distance Sensitive Line Haul formula is proposed to increase 13.98% on average, reflecting the lower growth of circuit terminations.

NECA proposes to keep the Intertoll Dial settlements formula essentially unchanged (an increase of 0.05%).

NECA is proposing a 5.94% decrease on average in Special Access formula, reflecting continued significant growth in services outpacing cost additions.

NECA proposes a 1.03% increase on average in the Signaling System (SS7) formula, reflecting replacement costs of older equipment.

2. <u>Effects on Individual Average Schedule Companies</u>

Effects of these formula changes on individual average schedule companies will vary depending on each company's size and demand characteristics. A *summary* of company changes by access line size is included in Section VII.

Of the 506 average schedule study areas, NECA calculates that 495 will experience formula increases. A small group of study areas will experience overall formula increases greater than 10%. These study areas derive a large percentage of their settlements from the Common Line Access Line and Central Office formulas, which are increasing. Another small group of companies will experience overall formula decreases. These decreases appear to be primarily due to two factors: (1) a decrease in the Common Line formula for study areas in the 500 to 1,000 lines per exchange band; and (2) decrease in the Line Haul Distance Sensitive Formula.

Small rural exchange carriers are experiencing a period of unprecedented falloff in subscriber demand. As a result, even with formula increases proposed by NECA, many companies will experience overall settlement decreases. These decreases could hamper the ability of these carriers to continue to provide quality service. For this reason, it is especially important to assure that the formulas are adjusted to reflect expected cost and demand levels for the 2003 - 2004 test period.

Some companies may be affected more significantly than others. In the event that any average schedule company files a petition demonstrating hardship, NECA requests that the Commission consider carefully the extent of individual company impacts associated with total settlement changes from all formulas and the potential need for transitional assistance in adjusting to new formula levels.

D. Communications with Average Schedule Companies

NECA will send to all average schedule companies a letter previewing the proposed average schedule formulas. **This** notification will present preliminary formula impacts and offer reasons for the proposed changes. This notification will also provide information that will allow each average schedule company to calculate its new settlement amounts on its **own** or with the assistance of NECA regional staff. In addition, NECA will update average schedule training and other materials routinely supplied to average schedule companies to reflect the **new** settlement formulas.